

**Center's Internet Web Page URL Address: <http://tsc.wes.army.mil>**



## **CADD/GIS Technology Center**

**CADD GIS**  
**TECHNOLOGY CENTER**  
*for facilities, infrastructure, & environment*



## CADD/GIS Technology Center

*for facilities, infrastructure, and environment*

- Originally established as the “Tri-Service CADD/GIS Technology Center” in 1992 at the Army Waterways Experiment Station, Information Technology Laboratory, Vicksburg, Mississippi .
- Established by the Army (including Army Corps of Engineers), Navy, and Air Force (i.e, Tri-Services).
- Center’s name changed to “CADD/GIS Technology Center for facilities, infrastructure, and environment” in July, 1999 to reflect a broader mission.

## Participating DoD and Governmental Agencies

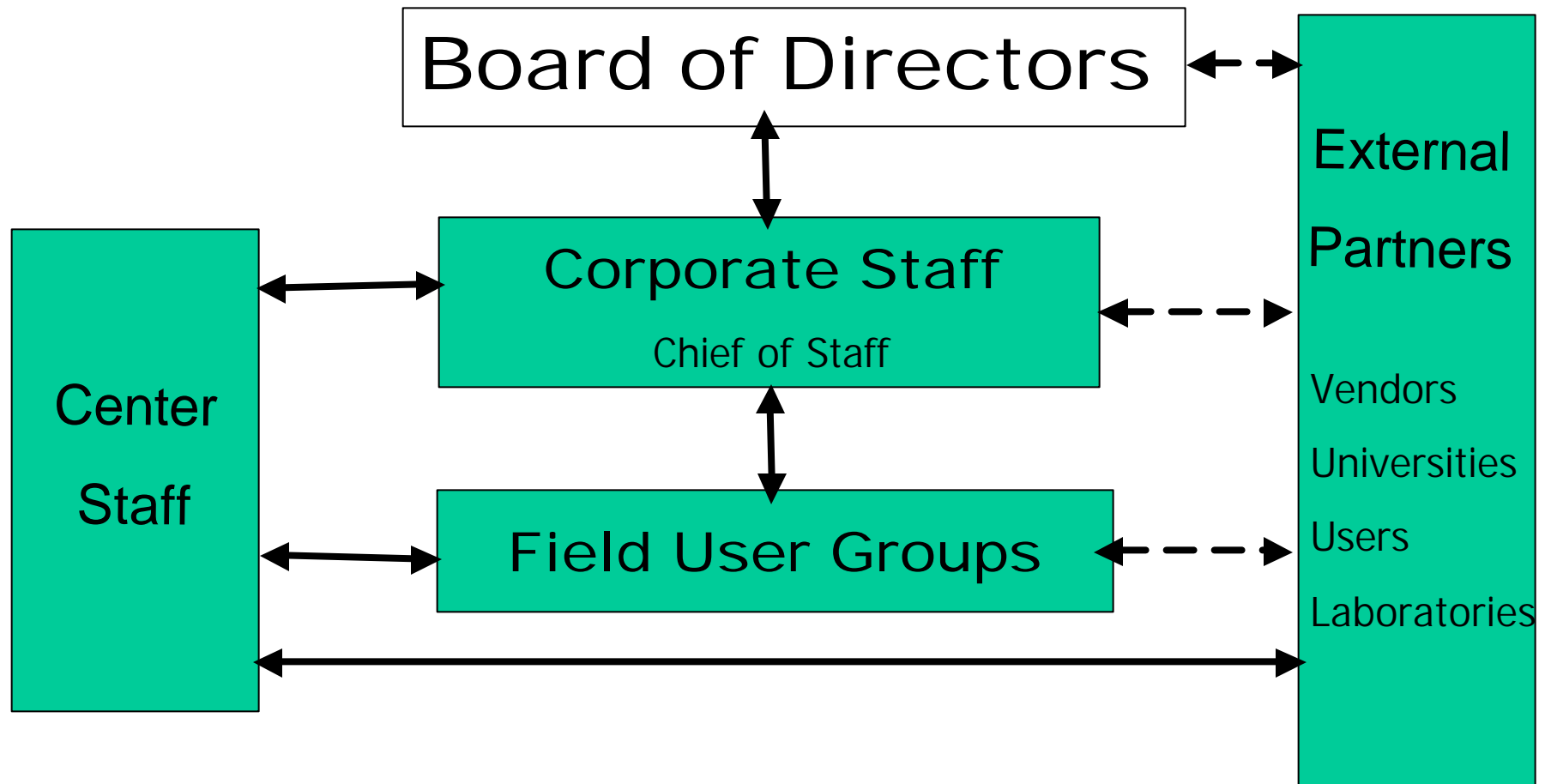
- **Participating Department of Defense (DoD) and Federal Government Agencies (as of January 2001):**
  - **U.S. Army Corps of Engineers**
  - **U.S. Army**
  - **U.S. Navy**
  - **U.S. Air Force**
  - **U.S. Marines**
  - National Aeronautics and Space Administration (NASA)
  - Defense Logistics Agency (DLA)
  - U.S. Coast Guard
  - General Services Administration (GSA)
  - National Institute of Building Sciences (NIBS)
  - U.S. Environmental Protection Agency

## Center Mission

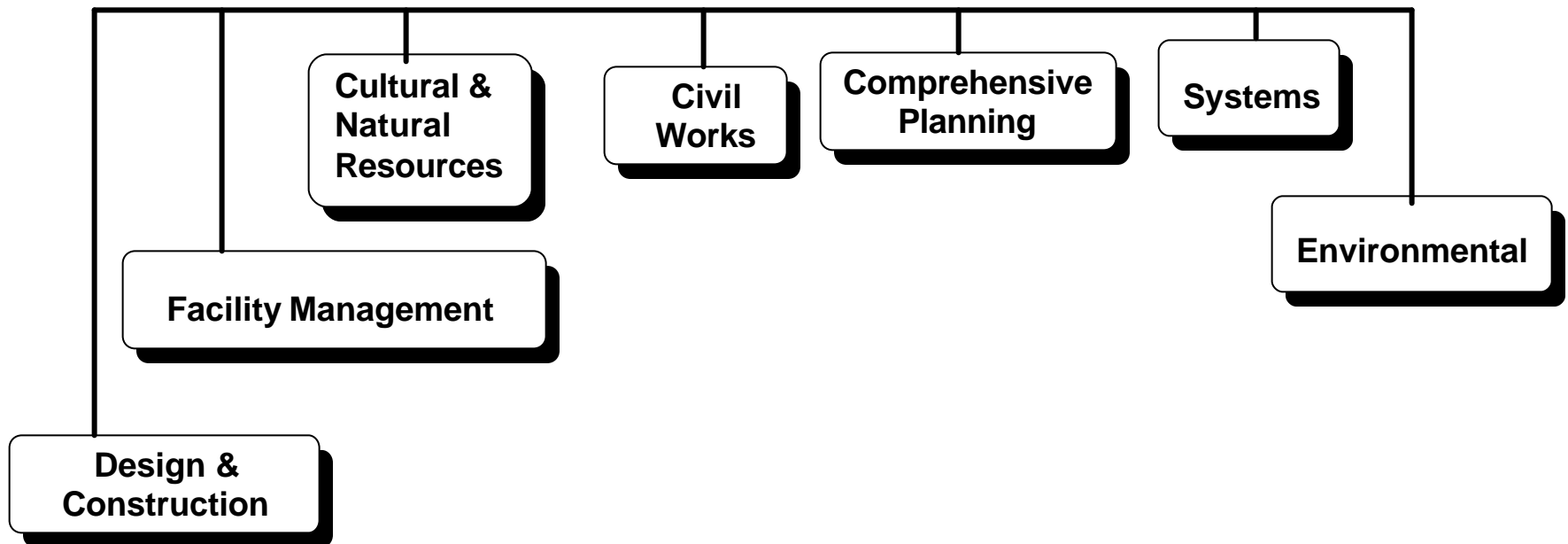
- **Our Mission**

- To serve as a multi-agency vehicle to coordinate facilities, infrastructure, and environmental use of CADD and GIS activities within DoD and with other participating governmental (federal, state, and local) agencies, and the private sector.

## Organizational Chart



# Center Field User Groups



# Center Functions

- **Role in Acquisition -**
  - Define technical requirements for CADD/GIS/FM software & hardware.
  - Manage large centralized CADD/GIS/FM software and hardware acquisitions.
    - Center currently manages the Naval Facilities Engineering Command (NAVFAC) FCAD2 contract for purchase of CADD/GIS/FM software and hardware by DoD and Federal Government.

- **Applications Development -**
  - Serve as a focal point for consolidation of CADD/GIS/FM software applications.
  - Rely on other organizations and the private sector to develop CADD/GIS/FM software applications.



## Center Functions

- **Promote Communication -**
  - Provide a vehicle to share information, programs, processes, techniques, and available training programs.
  - Record ideas and needs of DoD and participating agencies and coordinate with vendors and users in industry.

## Center Functions

- **Promote Standards -**
  - Develop CADD/GIS/FM standards.
  - Provide information concerning benefits of using standards.
  - Promote use of standards.
  - Provide training on use of standards.

- **Furnish Technical Advise -**
  - Serve as clearinghouse for advise on CADD/GIS/FM hardware and software issues.

- **Interface with Professional Organizations and Industry -**
  - Establish contacts and maintain working relationships with professional organizations and industry to aid in the coordination of standards for CADD/GIS and FM.

## Center Functions

- **Evaluate Technological Developments -**
  - Review and stay abreast of developments in CADD/GIS/FM software and technology.

## Center Functions

- **Recommend Necessary CADD/GIS and FM Policy**
  - Develop policy, which is reviewed/approved by the Corporate Staff.
  - Ultimate goal is to create policy that is consistent across DoD and participating agencies.

## **The Center's Approach to Data Standards Development for the Project/Installation Life Cycle**

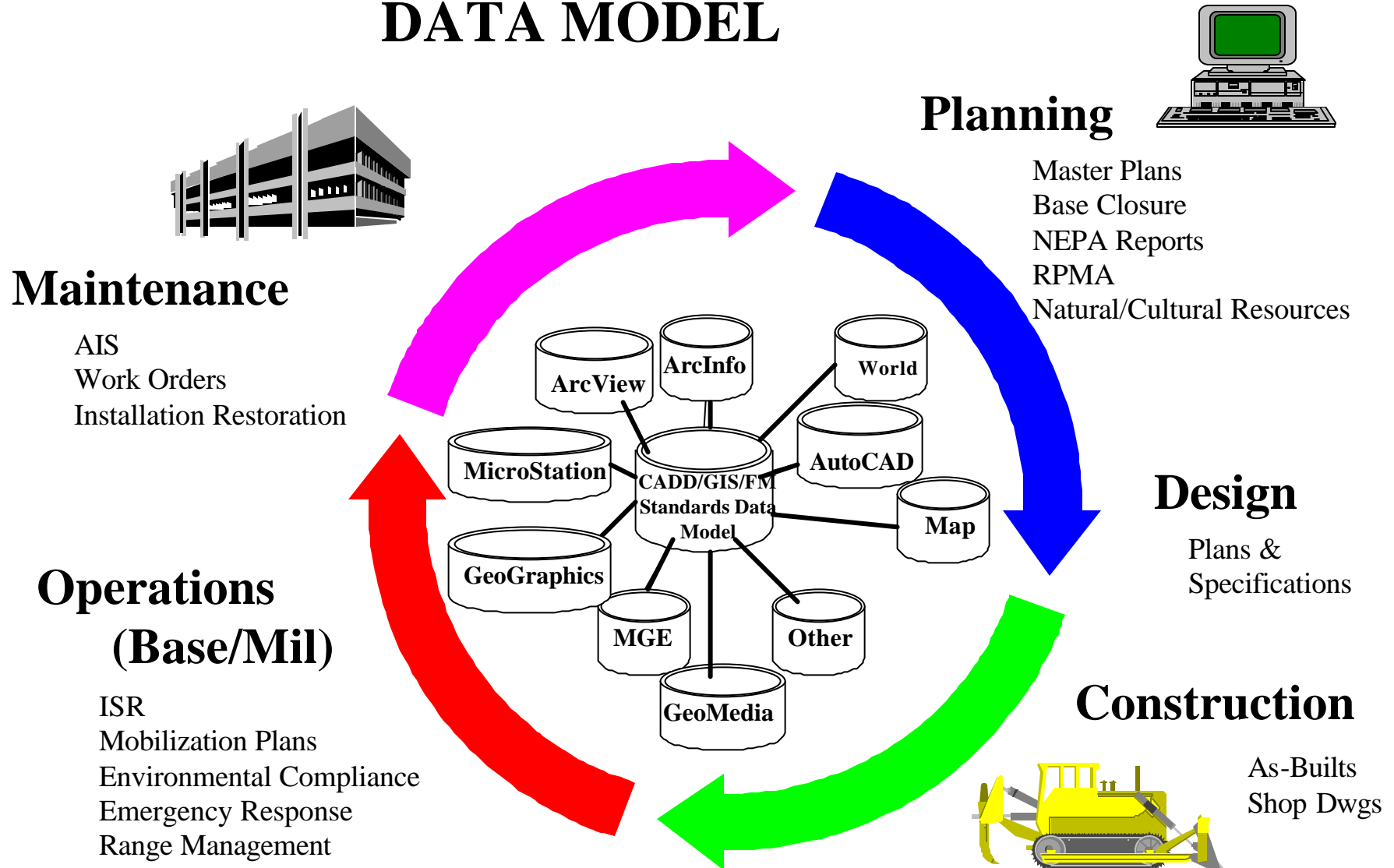
- **Current Efforts:**
  - Part 1.0 – Architect-Engineer (A-E) CADD & GIS Deliverables
  - Part 2.0 – Architectural/Engineering/Construction (A/E/C) CADD Standards
  - Part 3.0 - Spatial Data Standards for facilities, infrastructure, & environment (SDSFIE) (GIS)
  - Part 4.0 - Facility Management Standards for facilities, infrastructure, & environment (FMSFIE) (FM)
  - Part 5.0 - Electronic Bid Solicitations (EBS)

## **Part 1.2 - A-E GIS Deliverables Standards**

- Provides guidance for the preparation of Commerce Business Daily (CBD) announcements and contract provisions for use in acquiring the services of architect-engineer (A-E), and consulting firms, to prepare and deliver digital geospatial data and related products.
- Applies to geospatial data acquisition (i.e., surveying and mapping), digital map and geospatial data development, and delivery of the digital data to the end user.
- A Task Group consisting of DoD experts assisted in development.

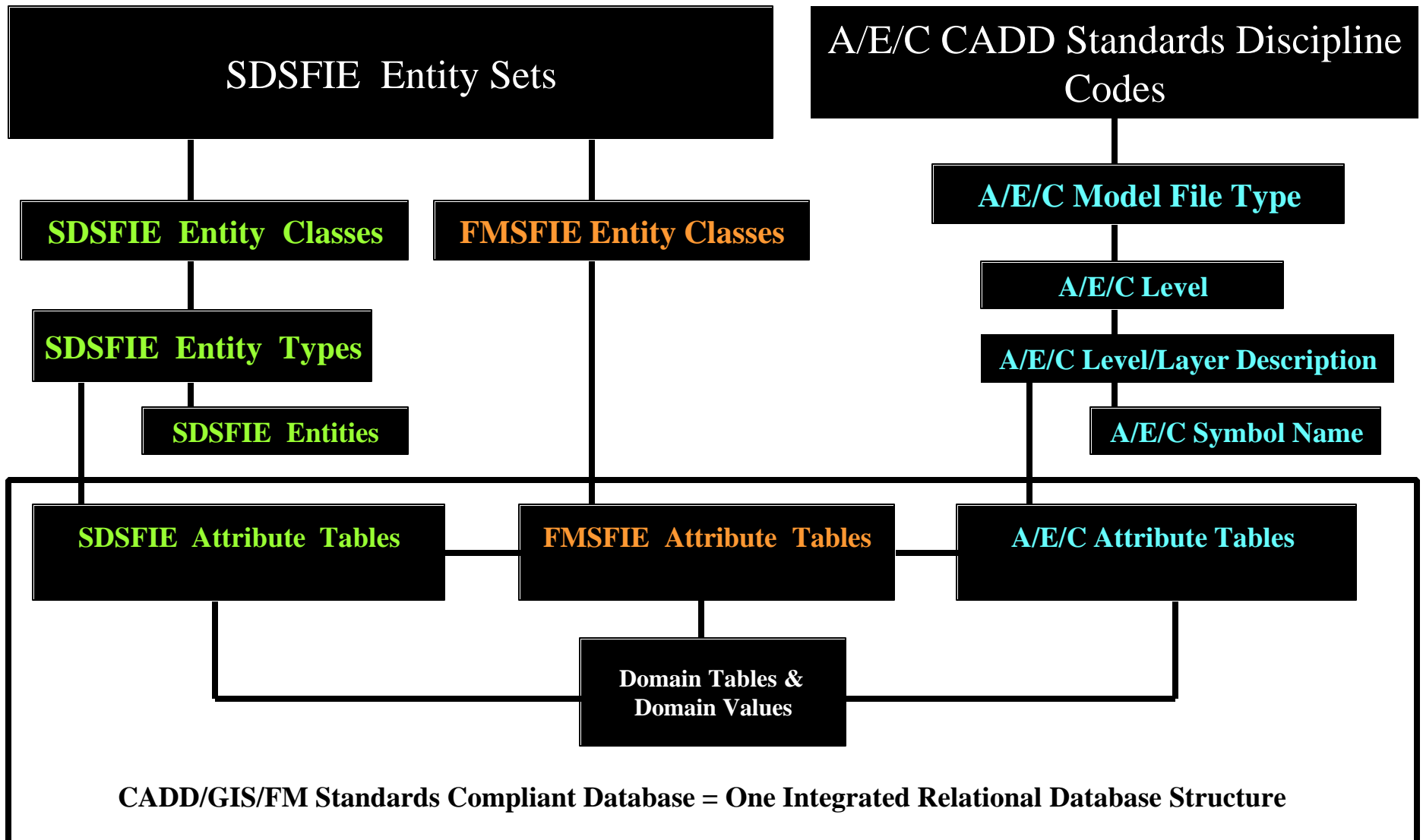


# PROJECT LIFE-CYCLE DATA MODEL



# CADD/GIS/FM Standards Data Model

(Option 1 concept for initial incorporation of FMSFIE with SDSFIE & A/E/C CADD Standards. Began with TSSDS/TSFMS Release 1.80, February 1999)



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